

Versatility

# GMI ROTARY Encoder

www.flux.gmbh

**Make your application stand out with a precise, versatile, all-in-one solution.**

The Giant Magneto Impedance (GMI) technology, developed and patented by FLUX for position measurement, capitalizes in an exceptional way the interaction between magnetic field and electromagnetic induction.

Hysteresis-free, absolute performance combined with robustness and large mounting tolerances guarantee flexibility in any situation and provide highest accuracy, repeatability, and resolution without compromises. IP67 Aluminium or steel housing for use in harsh environments as well as plug-and-play options make the GMI Rotary Encoder a reliable all-rounder for a limitless area of operations.

## Applications

- + Cobots & Robotic Joints
- + UAV & Drones
- + Medical Robots
- + Rotary Tables
- + Stabilized Platforms
- + Gimbals
- + Torque Motors



Model	Encoder Stator		Encoder Rotor		Thickness	Resolution	Accuracy	IP grade
	OD	ID	min OD	max ID				
GMI-ROT-055	55 mm	26.2 mm	39 mm	25 mm	7.5 mm	20 bits / rev.	$\pm 0.010^\circ / \pm 40''$	IP67
GMI-ROT-069	69 mm	40.2 mm	53 mm	39 mm	7.5 mm	20 bits / rev.	$\pm 0.008^\circ / \pm 30''$	IP67
GMI-ROT-080	80 mm	51.2 mm	64 mm	50 mm	7.5 mm	21 bits / rev.	$\pm 0.007^\circ / \pm 25''$	IP67
GMI-ROT-096	96 mm	67.2 mm	80 mm	66 mm	7.5 mm	22 bits / rev.	$\pm 0.005^\circ / \pm 20''$	IP67



**Absolute hollow shaft**



**IP67**



**Extended temperature range**



**Frameless, without bearings**



**Wide mounting tolerance**



**Compact**



**Plug-n-play: no field calibration**



**High Accuracy and Resolution**